



# CODE CONNECTION

November/December 2002

## Jack Wants You to Know



Jack A Proctor was presented with the 2002 Wilbur H. Lind Award at the 2002 Annual BOCA Conference in Fort Worth, Texas.

*I was honored to accept BOCA's 2002 Wilbur H. Lind award at the Annual Conference in Fort Worth, Texas, on behalf of the Commonwealth of Virginia, DHCD, and everyone who has worked so hard to make Virginia a leader in code enforcement.*

*This is truly an award won by all of us in code enforcement in Virginia. My deepest appreciation goes out to each of you who has stepped up to the plate to assist Virginia in obtaining the goals that made us a leader in code enforcement and led to this recognition. Your individual and collective efforts have been exemplary. Keep up the good work for Virginia. Thanks!*

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## Summary of State Fire Marshal's Suggestions on Requiring Testing of Fire Pumps During Water Shortages

By: Ed Altizer, Virginia State Fire Marshal

**D**ue to the on going conditions of the drought here in Virginia, we have received several questions regarding the testing of fire protection systems, which sometimes requires large volumes of water for the test.

Full testing of the fire protection systems should be completed whenever possible.

When it has been determined that a sufficient water supply is not available to perform the required testing, alternate methods could be used. Both the Virginia

Statewide Fire Prevention Code (SFPC) and the Uniform Statewide Building Code (USBC) have provisions that allow the respective fire or building official to grant modifications or to issue a temporary certificate of occupancy (CO), provided that public health and safety are assured.

Each situation should be handled on an individual basis or locality-by- locality, based on the water supply situation. This is a life safety issue and testing should only be reduced or eliminated when necessary. Based on our research, the standards on fire pumps do not address how to handle issues such as this.

NFPA 20 does address the issue of testing fire pumps using an installed pump bypass

with a flow meter that is an acceptable method of testing pumps. However, these are permanent installations and are not required for systems, but are used when the water supply may be in question on a continuing basis such as a small on-site storage tank used for fire protection only.

For new installations, where the bypass is not installed and sufficient water is not

available on a short-term basis, because of drought or other reasons, a temporary CO could be considered with the understanding that the full testing will be completed when the water is available.

Based on code research and discussions with staff and others with experience with fire pumps, there is not a single answer to the problem. Following are some suggestions on ways to address the issue.

1. A churn test is a must and since it would not use water, there should be no reason not to conduct the test. You should be able to see if the pump is pumping in the right direction from this. Wiring pumps wrong is not uncommon and can result in the pump running backwards. This would also allow you to check the pump "static" pressure against the shop curve. Of course, any of the other tests that do not require the use of water must be performed.

*continued on page 8*

# Good Things to Know

## \* Address Change

The Southwestern Regional Fire Marshal's Office has moved to a new site. The new address is 281 Bagley Circle, Marion, VA 24354. Telephone number is (276)783-3461; fax number is (276)783-7132.

## \* Building Inspector Wanted

Botetourt County is accepting applications for the position of Building Inspector. This individual is responsible for the enforcement of the Virginia Uniform Statewide Building Code, conducts various required inspections, and reviews plans to ascertain conformity to building codes and zoning ordinance. Applicants must possess a combination building inspection certification or be actively pursuing all professional certifications within 12 months from appointment and complete all certifications within 24 months. A valid Virginia driver's license is required. Salary is \$25,888 to \$38,012, depending upon qualifications and experience, with a comprehensive benefits package. Applications can be obtained by calling (540)473-8223 or by downloading it from the county's website at [www.co.botetourt.va.us](http://www.co.botetourt.va.us). Cover letter and county employment application should be submitted to the Botetourt County Administrator's Office, 1 W. Main Street, #1, Fincastle, VA 24090. Open until filled. EOE.

## \* Governor's Appointment

Governor Warner announced the appointment of Michael D. Redifer to the Board for Contractors. Redifer is the Building Official for Nelson County.

## \* 2000 International Energy Conservation Code Seminars

DHCD, in cooperation with the Department of Mines, Minerals, and Energy, will conduct four energy seminars in 2003. The energy seminars will be made available to code officials, technical assistants, design professionals, builders, and trade contractors. The seminars will be one day in length and will be scheduled in the Tidewater, Richmond, Roanoke, and Northern Virginia areas. Watch your "Code Connection" newsletter for more information on these seminars.

## \* VBCOA's 74th Annual School and Conference

The 74th Annual Virginia Building and Code Officials Association's School and Conference convened at the Four Points Sheraton Hotel in Harrisonburg on October 27-29, 2002. The conference's focus was on the International Building Code and International Residential Code.

## \* VPMIA Chapter of the Year

Each year BOCA International recognizes a chapter that excels in educational opportunities, membership, participation in BOCA activities, and other related achievements. This year, the Virginia Plumbing and Mechanical Inspectors Association (VPMIA), Chapter 29, was honored as the Chapter of the Year. VPMIA's vision is to provide code development leadership and continuous training for VPMIA members. VPMIA takes an active role in ICC code development by maintaining four separate code committees that collectively submitted 52 code changes this year. The 2002 officers are President-Guy Tomberlin, Vice President-Geary Showman, Executive Secretary-Paul Hostetler, Treasurer-John Seay, Secretary-Michael Thuot, and Educational Chairman-Dennis Martinelli.

## \* ICC Representatives Elected

The following individuals from Virginia were elected to serve as officers on the ICC Board of Directors for the 2002-2003 term: Stephen I. Shapiro, C.B.O., Director of Codes Compliance, City of Hampton and William D. Dupler, Building Official, Chesterfield County.

## \* Superior Achievement Award

David Humphrey, Electrical Inspector in Henrico County received a Superior Achievement Award from DHCD's Division of Building and Fire Regulation for his leadership and instruction in the building of the "Humphrey Wall" used at Electrical Modules of the Virginia Building Code Academy. David has also made many contributions on the committees which aided in the reconstruction of VBCA modules. □

# Resolution 2002-6

## Consolidation of BOCA With ICBO and SBCCI International Code Council

**WHEREAS**, the members of Building Officials and Code Administrators International, Inc., did assemble at BOCA's 87<sup>th</sup> Annual Conference in Fort Worth, Texas, on October 1, 2002; and

**WHEREAS**, this Corporation ("BOCA") has agreed in principle to consolidate its operations with the International Code Council, Inc. ("ICC"), International Conference of Building Officials, Inc. ("ICBO"), and Southern Building Code Congress International, Inc. ("SBCCI") (the "Consolidation") in order to create consistent, performance-based standards that satisfy government, industry and public needs and provide for reasonable safety in the built environment; and

**WHEREAS**, the Board of Directors of this Corporation and Boards of Directors of ICC, ICBO and SBCCI directed the Chief Executive Officers of the respective organizations to develop a plan to consolidate the operations of BOCA, ICBO, ICC and SBCCI; and

**WHEREAS**, the Chief Executive Officers collectively appointed the "Executive Steering Committee" to assist them with the development and operational consolidation plan; and

**WHEREAS**, the Executive Steering Committee has, with the input of BOCA's representatives on the Executive Steering Committee, developed a plan to consolidate the operations of BOCA, ICBO, ICC and SBCCI, which plan includes the

transfer of all of the assets of this Corporation to ICC (and/or entities that ICC will control) and the dissolution of this Corporation (the "Plan of Consolidation") and recommended that the Consolidation proceed as planned; and

**WHEREAS**, the Board of Directors of this Corporation believes the Consolidation is in the best interest of BOCA and its members and recommends that the Members vote to approve the Consolidation; now, therefore.

**BE IT RESOLVED**, that those Members here assembled on October 1, 2002, at the 2002 BOCA Annual Meeting of the Members do hereby approve (a) the transfer of BOCA's assets and operations to ICC (and/or entities that ICC will control), and (b) the dissolution of BOCA; the foregoing subject to the approval of the BOCA Board of Directors; and

**BE IT FURTHER RESOLVED**, that the Members authorize the Chief Executive Officer of this Corporation, or his designee, to take such actions as are necessary and appropriate in furtherance of effecting the Consolidation, including, without limitation, modifying the Plan of Consolidation in such manner as the Executive Steering Committee and the Chief Executive Officer of this Corporation may from time to time determine is necessary or appropriate; and

**BE IT FURTHER RESOLVED**, that the Members hereby approve and ratify each and every action taken by its Board of Directors, Officers, agents and employees prior to the date hereof in furtherance of the purposes of this Resolution. □

*Jack Wants You To Know*  
*continued from page 1*

Jack A. Proctor, CPCA, Deputy Director for the Virginia Department of Housing and Community Development, received the 2002 Wilbur H. Lind Award at the BOCA conference in Fort Worth, Texas. The award is presented annually to an individual who consistently displays integrity, professionalism and an untiring dedication to the code enforcement profession. Proctor entered the code profession in 1973, after a distinguished career in the United States Navy, when he became the first building official of Shenandoah County, Virginia. His leader-

ship and success as the first building official in a very rural area of Virginia brought him to the attention of Virginia state officials, which resulted in his being recruited and hired in 1975 as Virginia's first Building Code Supervisor. During Proctor's 27 years with the state, in a career still in progress, he has put Virginia in the forefront among the states in protecting the health, safety and welfare of its citizens through model code adoptions and professional code administration. His work has led to the adoption by the Virginia General Assembly of the Virginia Uniform Statewide Building Code, Virginia Uniform Statewide Fire

Prevention Code, Virginia Amusement Device Regulation, Virginia Building Code Academy and Virginia State Certification Standards. Proctor has served as President of the National Academy of Code Administration (NACA), the National Council of States on Building Codes and Standards (NCSBCS), and the International Academy for Professional Code Administration (IAPCA). In 1993, Proctor received BOCA's Albert H. Baum Achievement Award in recognition of his outstanding contribution to the field of code enforcement. *(Insert from Codes Forum News)* □

# New Plumbing Inspection Training Program

Presented at the Virginia Plumbing and Mechanical Inspectors (VPMIA)  
School of Instruction (SOI)



*New Plumbing Inspection Training Program  
presented at the Virginia Plumbing and Mechanical  
Inspectors School of Instruction*

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*This is a great  
training  
program.*

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The Code Academy's new plumbing inspection training program (residential) was presented by request at the VPMIA's School of Instruction on July 12, 2002. The school was held at Graves Mountain Lodge in Syria, Virginia. Instructors included Jim Moore- Fairfax County, Kenny Smith-Fairfax County, and Paul Rimel-City of Staunton.

The reactions and comments of the VPMIA participants regarding the new plumbing inspection-training program were generally favorable. Specific recommendations for improvement included such statements as making the digital images and pictures clearer, illustrating dimensional lines on slides in accordance with architectural standards, correcting a table reference, and enlarging the font size and readability of the Power Point slides used to simulate and present the end-to-end residential plumbing inspection process in Virginia. Particularly favorable reactions from participants included the following statements (direct quotes):

- "One of the best in 15 years"
- "This is the way to do it"

- "Walls are excellent visual"
- "Instructors were great"
- "Program was a big improvement over previous code academy training"
- "Best I have seen"
- "This is a great training program"

Comments from J. Daniel Crigler, President of the Plumbing and Mechanical Professionals of Virginia (PMPV) and a participant in this training, included the following statement in a letter to DHCD (direct quotes): "I would like to commend those that provided instruction in the plumbing module at the summer annual conference of VPMIA, Graves Mountain Lodge, Syria, VA on July 12th ... It is wonderful to think that finally there is really good technical training for the inspectors in the field available and that it is provided by the department that oversees the codes and the training. This will certainly help construction in Virginia by putting the inspectors and contractors on the same page... Once again, thanks for providing this kind of training to our industry. After all, we are all in this together to improve quality of life and keep safe the citizens of Virginia."

See the 2002 Virginia Building Code Academy schedule for offering of this program. □





# The Estimated Proposed Time Line For Amendment of Building and Fire Related Regulations

We are currently on track with our time line for adoption of amendments to the Building and Fire Related Regulations. Below is the balance of the proposed schedule. Steps one through ten have been completed; therefore, they are

deleted from this table. If you have any questions on the status of this time line please call: Vernon Hodge, State Regulatory Administrator - 804-371-7174.

What	Who	When
11. Obtain DPB, Secretary and Governor's approval	DPB/Sec./Governor	November 4, 2002
12. File proposed regs. W/ Registrar and Town Hall (NLT 14 days after approval )	Staff	Before noon November 13, 2002
13. Virginia Register published (start comment period, min. 60 days)	Code Commission	November 26, 2002
14. Hold Public Hearing	Board	December 10, 2002
15. Public Comment Period ends	Staff	January 27, 2003
16. Send BHCD package	Staff	February 7, 2003
17. Send summary to public commenter	Staff	February 7, 2003
18. Review public comment and adopt final regs	Board	February 17, 2003
19. Send final regs. to ATG	Staff	March 3, 2003
20. Obtain ATG's approval	Attorney General	March 13, 2003
21. Submit to Secretary	Staff	March 19, 2003
22. File final regs/ w / Registrar and Town Hall	Staff	March 19, 2003
23. Virginia Register published	Code Commission	April 7, 2003
24. Gubernatorial/Legislative/Citizen review ends	Governor/GA/Citizen	May 7, 2003
25. Final regulations become effective	Board	July 1, 2003

## FOR YOUR INFORMATION

### Building Code Academy Advisory Committee (BCAAC)

#### House Bill NO 1211

Be it enacted by the General Assembly of Virginia  
The Board shall appoint a Building Code Academy Advisory Committee (the Committee") comprised of representatives of code enforcement personnel and construction industry professions affected by the provisions of the building and fire prevention regulations promulgated by the Board. Members of Committee shall receive no compensation but shall be entitled to be reimbursed for all reasonable and necessary expenses incurred in the performance of their duties in accordance with Section 2.2-2813. The Committee shall advise the Board and the Director on policies, procedures, operations, and other matters pertinent to enhancing the delivery of training services provided by the Building Code Academy. □

The Building Code Academy Advisory Committee will represent the following client groups:

- Association of Builders and Contractors of VA
- Association of General Contractors
- Building Owners and Managers Association
- Consulting Engineers Council of VA
- Fairfax County Code Academy
- International Association of Electrical Inspectors VA
- National Association of Homebuilders
- Plumbing and Mechanical Professionals of VA
- VA Plumbing Mechanical Inspectors Association
- Prince William Code Academy
- VA Society of American Institute of Architects
- VA Association of Realtors
- VA Building and Code Officials Association
- VA Cross Connection Control Association
- VA Fire Prevention Association
- VA Structural Engineers Council

Watch the *Code Connection* for additional information on the Building Code Academy Advisory Committee (BCAAC).



# Virginia Building Code Academy

Department of Housing and Community Development  
Training and Certification Office  
501 North Second Street  
Richmond, Virginia 23219  
Telephone: 804/371-7180 Fax: 804/371-7092



**Important Notice:**  
Check the box of the  
preferred class

## January 2003 - December 2003

This schedule sheet  
**MUST** accompany your  
application

Date	Class	Location	Application Deadline	Required for Certification
<input type="checkbox"/> Jan. 15-17	CORE Module	Chester VA	Dec. 16	All Code Enforcement Personnel
<input type="checkbox"/> Jan.14-16	Plumbing Module	Chester VA	Dec. 16	5A, 5B, 5C
<input type="checkbox"/> Feb. 3-5	Property Maintenance Module	Northern VA	Jan. 3	Maintenance Official Maintenance Inspector
<input type="checkbox"/> Feb. 25-27	Electrical Module	Southwest VA	Jan. 27	2A, 2de Enforcement Personnel
<input type="checkbox"/> Mar. 18-20	Mechanical Module	Northern VA	Feb. 18	4A, 4B, 4C
<input type="checkbox"/> Mar. 17-19	Building Module	Northern VA	Feb. 18	1A, 1B
<input type="checkbox"/> Mar. 17-19	Electrical Module	Northern VA	Feb. 18	2A, 2B, 2C
<input type="checkbox"/> Apr. -----	Amusement Device Module	Charlottesville	TBA	ADI Exam (Exterior)
<input type="checkbox"/> Apr. 8-10	Advanced Official Module	Richmond VA	Mar. 7	All Code Officials
<input type="checkbox"/> Apr. 23-25	Plumbing Module	Southwest VA	Mar. 24	5A, 5B, 5C
<input type="checkbox"/> May 7-9	Plans Review Module	Tidewater VA	Apr. 11	1C, 3C
<input type="checkbox"/> May 20-22	CORE Module	Southwest VA	Apr. 17	All Code Enforcement Personnel
<input type="checkbox"/> May 19-21	Building Module	Northern VA	Apr. 17	1A, 1B
<input type="checkbox"/> May 21-23	Plumbing Module	Northern VA	Apr. 17	5A, 5B, 5C
<input type="checkbox"/> Jun. 17-19	Property Maintenance Module	Tidewater VA	May 16	Maintenance Official Maintenance Inspector
<input type="checkbox"/> Jun. 16-18	Building Module	Tidewater VA	May 16	1A, 1B
<input type="checkbox"/> Jun 18-19	Elevator Inspection	Tidewater VA	May 16	N/A
<input type="checkbox"/> Sept. 16-18	CORE Module	Charlottesville	Aug. 15	All Code Enforcement Personnel
<input type="checkbox"/> Sept. 16-18	Electrical Module	Charlottesville	Aug. 15	2A, 2B, 2C
<input type="checkbox"/> Sept. 17-19	Mechanical Module	Charlottesville	Aug. 15	4A, 4B, 4C
<input type="checkbox"/> Oct. 7-10	Advanced Official Module	Richmond VA	Sept. 8	All Code Officials
<input type="checkbox"/> Nov. 18-20	CORE Module	Tidewater VA	Oct. 17	All Code Enforcement Personnel
<input type="checkbox"/> Nov. 18-20	Building Module	Richmond VA	Oct. 17	1A, 1B



# Virginia Building Code Academy

## APPLICATION FORM

Do not forget to submit the schedule page showing which class you applied for.

Please fill this application out *completely* to be considered for a VBCA module

1. **Class Selection:** Mark the one class on the schedule list that you wish to apply for - do not modify the form. A separate application is required for each class you wish to attend.
2. **Applicant information:** (print or type)

Name: \_\_\_\_\_ Title: \_\_\_\_\_

Employer: \_\_\_\_\_

Business mailing address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Business telephone: \_\_\_\_\_ Driver's Lic. Or SSN #: \_\_\_\_\_

3. **Applicant's position description:** Position title: \_\_\_\_\_

Number of years in this position: \_\_\_\_\_ Number of years in code enforcement/administration: \_\_\_\_\_

What is your primary responsibility as it relates to the USBC/VSFPC? \_\_\_\_\_

4. **Certification Plans:**

A. Date you attended the CORE Module:

B. Have you previously been denied attendance to the class for which you are applying due to a lack of space? (Check box) ☐ Yes ☐ No

C. Will you be seeking certification within the next twelve months? ☐ Yes ☐ No

If you answered "yes", please list in priority order the Categories of Certification you will be seeking.

1. \_\_\_\_\_ 4. \_\_\_\_\_

2. \_\_\_\_\_ 5. \_\_\_\_\_

3. \_\_\_\_\_ 6. \_\_\_\_\_

D. If you have a provisional certification, please list the category of certification and its expiration date:

Expires: \_\_\_\_\_

**Important Note To Applicant:** The preceding Sections 1 through 4 must be completed in their entirety by you, the applicant. Section 5 must be completed by the local Code Official. Failure to complete the form or to provide adequate information may cause the form to be returned without further action towards accepting the application.

5. A. Code Official's Endorsement: (NOTE: The "Code Official" as defined in the VUSBC/VSFPC.)

Name (print or type): \_\_\_\_\_ Title: \_\_\_\_\_

Business mailing address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Telephone number: \_\_\_\_\_ E-mail address (if applicable): \_\_\_\_\_

B. Code Enforcement: Is the applicant presently enforcing that portion of the code that is directly related to the class being applied for? (check box)

☐ Yes ☐ No Initials of Code Official: \_\_\_\_\_

C. Prioritization of Applicant(s): Applications are often received from more than one individual for the same class representing the same jurisdiction. As the Code Official, please prioritize this applicant, as compared to any other applicants from your jurisdiction, to this particular class, based on the greatest need you have. Please indicate whether this should be considered your 1st choice, 2nd choice, 3rd choice, etc.

Ranking: \_\_\_\_\_ Initials of Code Official: \_\_\_\_\_

### Statement

(The applicant and Code Official must both read and sign the statement below. Notice to attend and a copy of the class rules will be sent to each participant subsequent to application acceptance.)

We understand that for a participant to receive credit for any module of the Virginia Building Code Academy, they must attend the entire module. Participants will not schedule any regular work activities during the period of the Code Academy. Course work missed due to personal or work related emergencies must be made-up prior to receiving credit for the course. If a participant cancels less than one workday prior to class, or does not arrive for the first night's lodging, their jurisdiction will be invoiced for the one night's lodging. If a participant does not use lodging arrangements requested of and provided by the Academy, the jurisdiction will be charged for all lodging costs not utilized.

Code Official's signature: \_\_\_\_\_ Applicant's signature: \_\_\_\_\_

There are no fees for participants attending the Virginia Building Code Academy who are engaged in code related work for local or State agencies that participate in contributing 1% levy funds in accordance with 36-137(7) of the Code of Virginia. Others will be required to pay tuition based upon an established fee schedule of the particular class. Participants must provide their own transportation and bear all associated cost such as tolls and parking fees. Living arrangements and meals will be provided in accordance with Code Academy policy and all classroom materials will be provided. Due to the limited number of spaces for all Code Academy classes, acceptance to each specific class must be necessarily limited. Each applicant will be considered on a case-by-case basis. Participants in academy classes will be assigned double occupancy rooms with another participant. If other lodging arrangements are desired, participants must make their own arrangements. If you have any questions, please do not hesitate to contact the Training and Certification Office at 804-371-7180 or through facsimile at 804-371-7092.

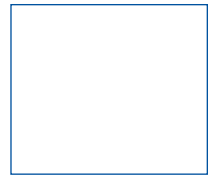
### Mail application to:

Training and Certification Office  
Division of Building and Fire Regulation  
501 North Second Street  
Richmond, Virginia 23219

**NOTATION ON DUE DATES:** Applications for individual classes will not be accepted after the "application deadline" date listed on the schedule of classes.



Department of Housing and  
Community Development  
The Jackson Center  
501 North Second Street  
Richmond, Virginia 23219



**We're on the Web:**  
[www.dhcd.state.va.us](http://www.dhcd.state.va.us)

## Code Connection Subscription

"Code Connection" is published by the Department of Housing and Community Development. The purpose of the publication is to keep interested parties aware of events on the state and local levels. The newsletter addresses training schedules, interpretations by the Technical Review Board, and articles of interest to building and fire-prevention professionals.

"Code Connection" may be sent to you for a yearly subscription of \$12. Please make checks payable to: Treasurer of Virginia and mail to: DHCD, Training and Certification Office, 501 North Second Street, Richmond, VA 23219.

Name \_\_\_\_\_  
Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Telephone \_\_\_\_\_ Email \_\_\_\_\_

*Summary of State Fire Marshal's Suggestions  
continued from page 1*

2. It is important to check the automatic pump and alarm functions. Will the pump start as required if the pressure in the system drops? I would hope there is enough water available to do at least a single flow test. The amount of water available could vary from locality to locality, so the number and duration of tests required for the temporary CO may vary. Testing at 150% of rated capacity only would be a first choice. This could use 2,000 or more gallons of water if the test was shut down as soon as the flow and pressure was recorded. This would depend on pump size and duration and would require good planning to reach the 150% capacity as soon as possible.

The code recommends allowing a pump to run for five minutes after starting, but this may not be necessary for a one-time startup. Check with the manufacturer.

This would also allow you to observe the automatic functions and listen for debris in the lines or possibly detect an obstruction.

As a last resort, opening one test header and flowing enough to drop pressure in the 5-10 psi range or enough to test the automatic function would also allow plotting a curve point and checking for debris. This should use less than 500 gallons.

3. In a critical situation where no water is available for testing, the churn test could still be performed. If other pump operations cannot be verified by minimum testing as indicated above, the temporary CO could include provisions for a fire watch or other safety measures to help insure safety.
4. Regarding annual testing of pumps, a modification could be issued to postpone

the testing for a few weeks as necessary. Of course, if the pump has a test bypass, that would be used. Again, where possible, minimal testing should be performed to check the automatic functions of the installation.

5. Regarding testing of sprinkler systems without pumps, testing of the alarms is important. Normally, testing of a sprinkler system can be completed with limited water flow. I would recommend continued testing at least to simulate the flow of one sprinkler to test alarms. Large volumes of water can be lost when opening the main drain especially if it is a two inch drain. In a critical situation, this test could be postponed until a later date by modification or temporary CO.

Of course, the above are just a few of several possible suggestions. I would welcome other suggestions. ☐